

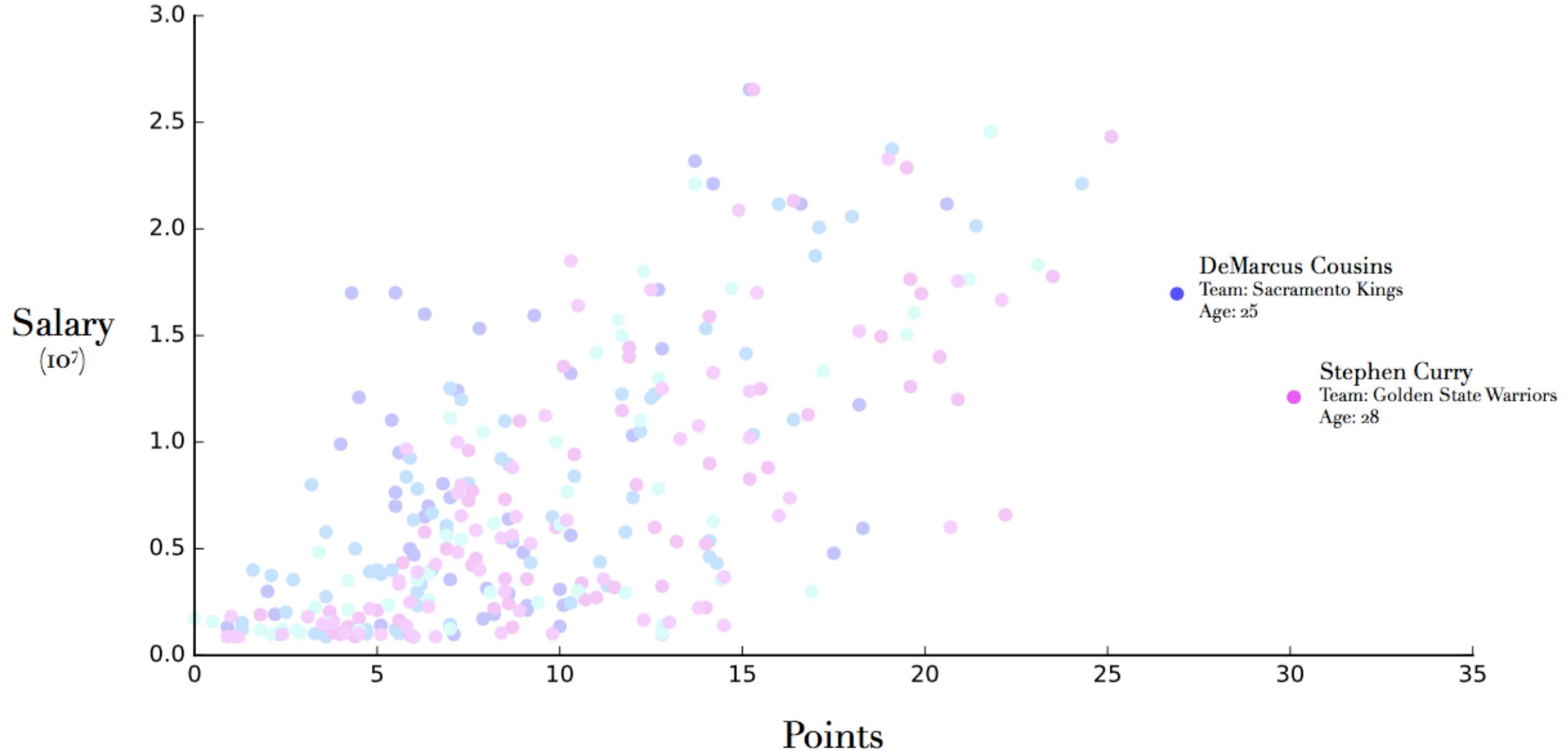
PART ONE: CRITIQUES! (...KIND OF)

Pick the one you want to discuss, upload it into **#data-studio-critique**

4:47:54 PM Jen Messier: make sure you tell your kids that points per game is a really barbaric measure of value!

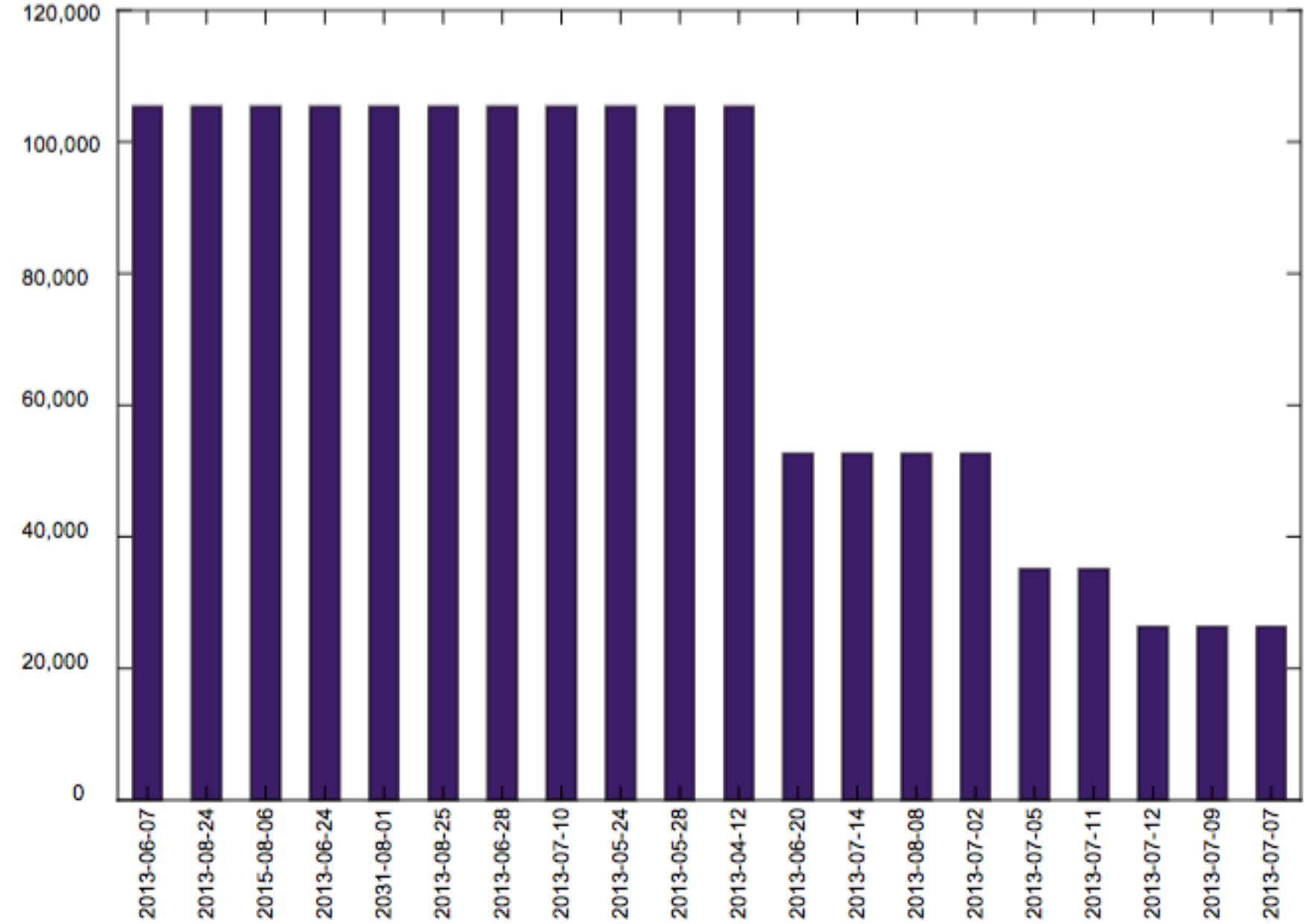
4:49:37 PM Jonathan Soma 🎮🚀: i will

Most Valued Players: Money and Performance in the NBA

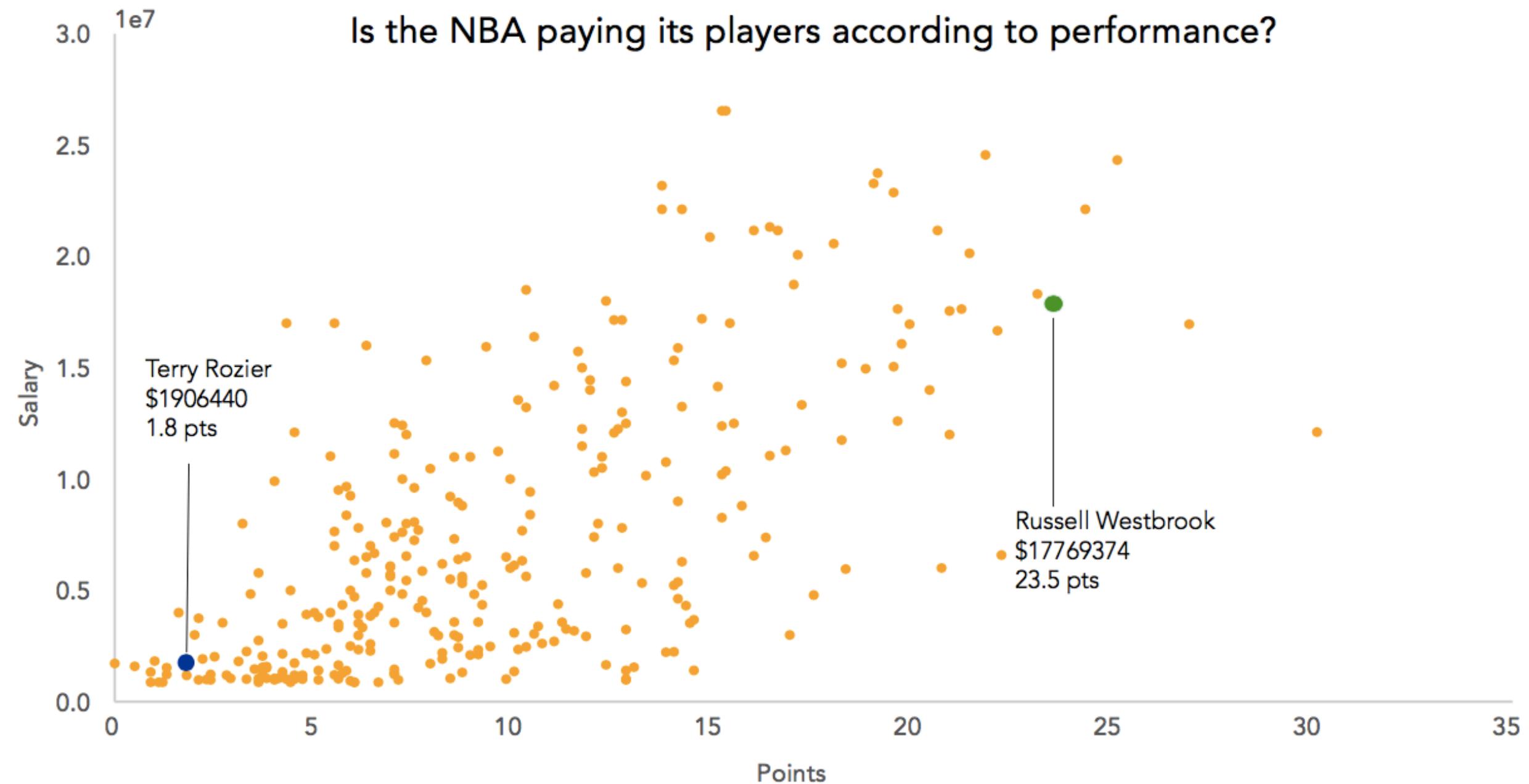


Happy days for NYC coffers

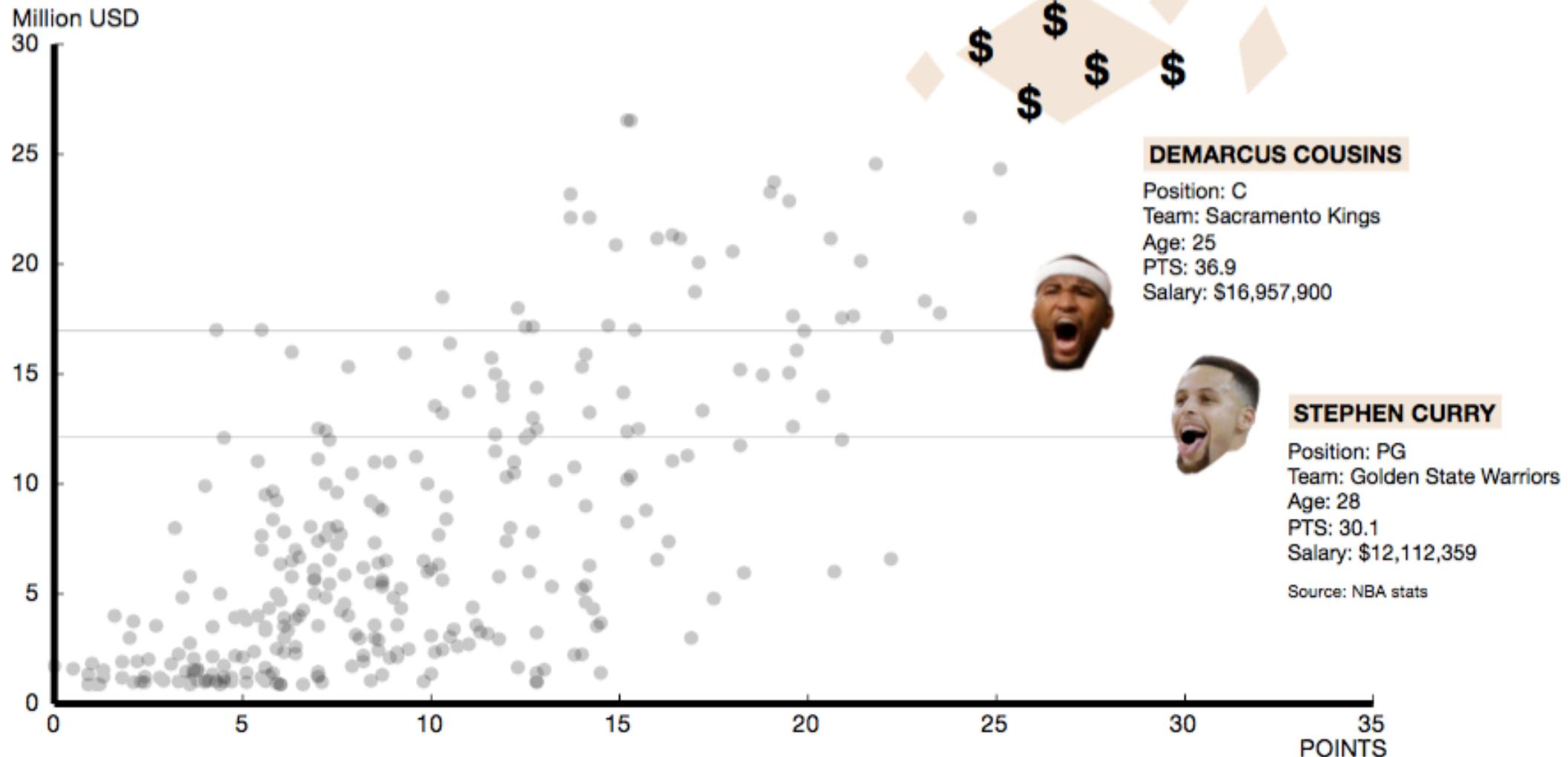
(NYC tickets revenue per day (top 20, in \$))



Is the NBA paying its players according to performance?

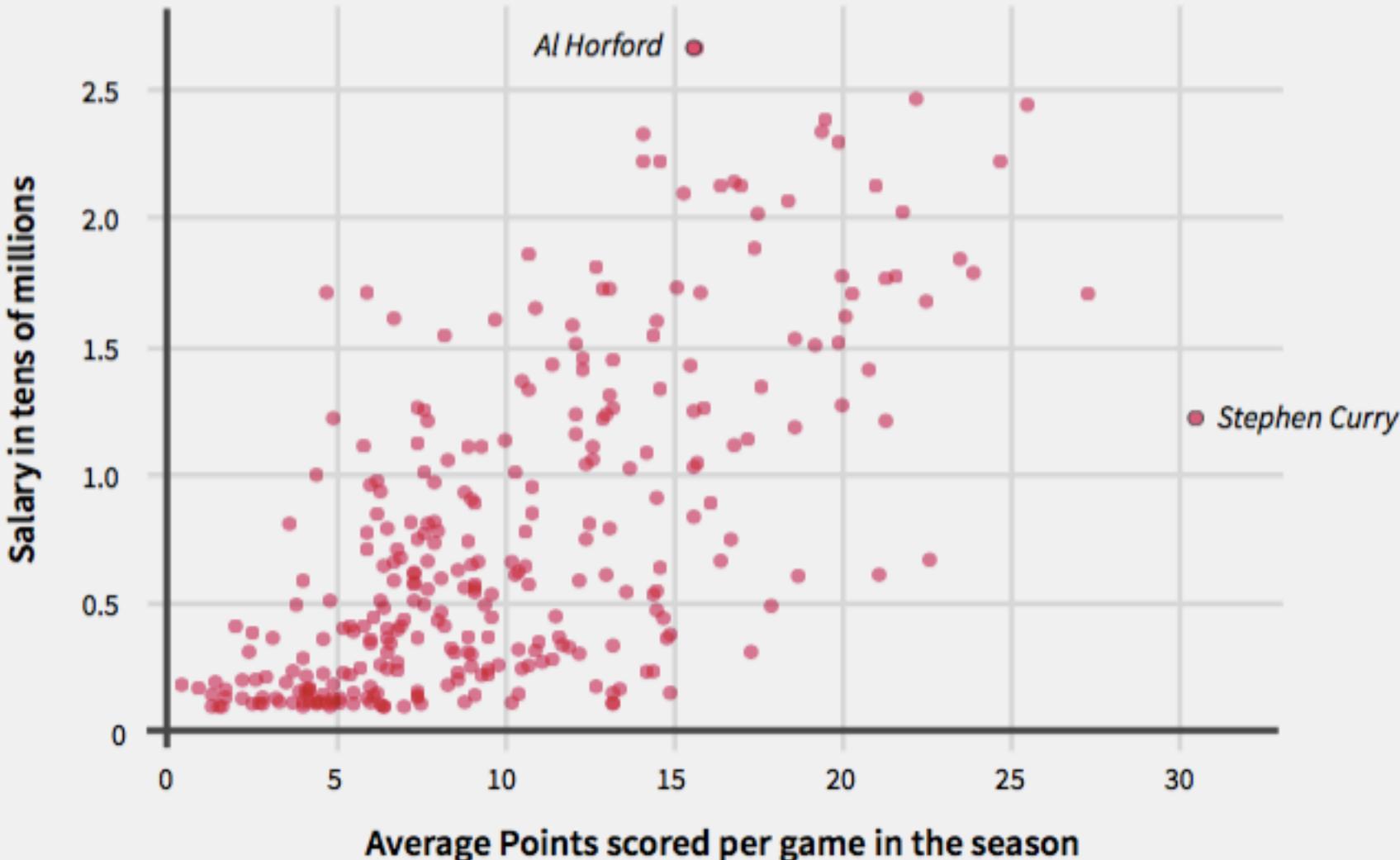


THIS AIN'T FAIR! UNDERPAID BASKETBALL PLAYERS



Does Spending Translate Into Scoring in the NBA?

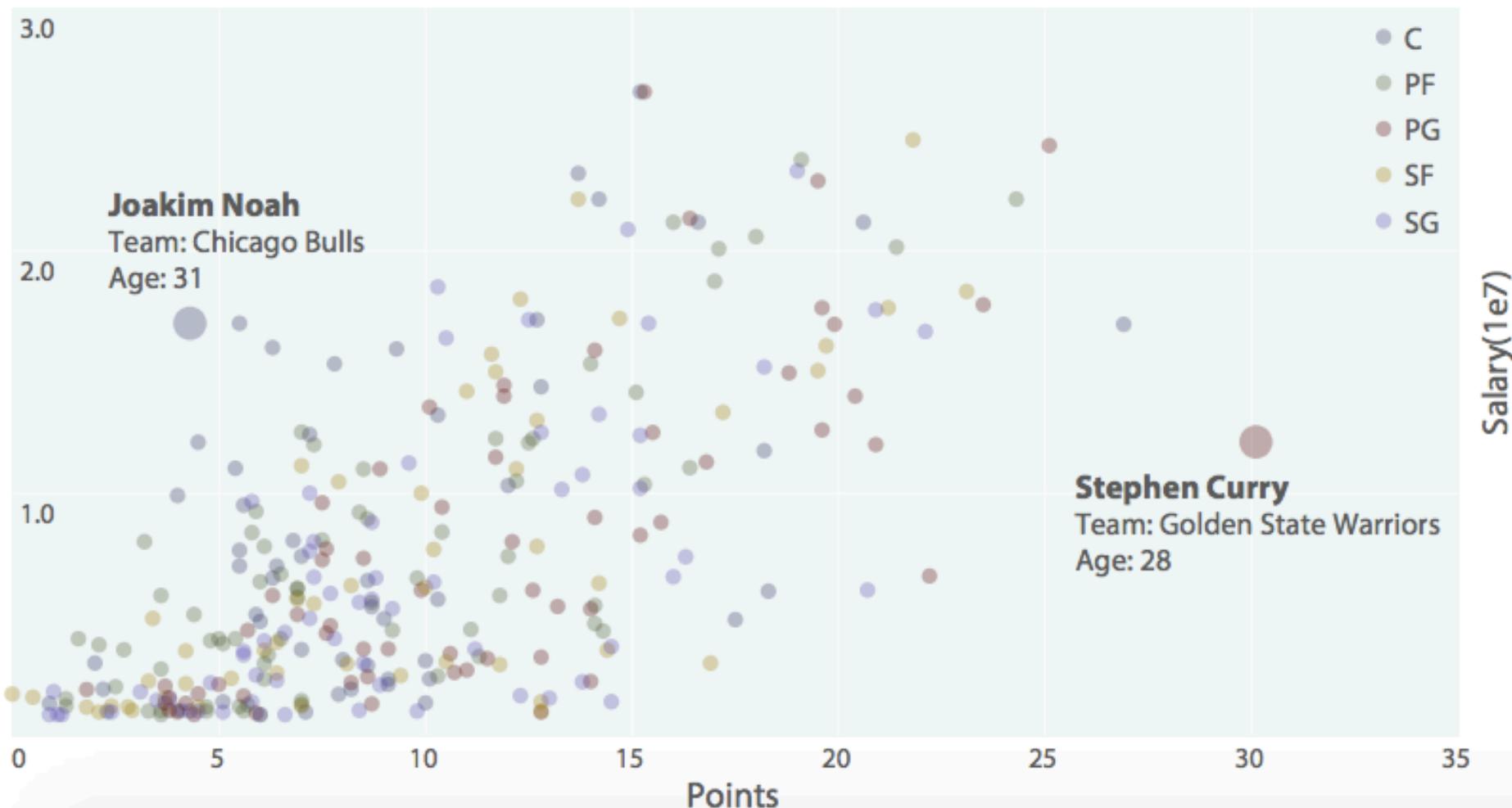
Average Points per game vs Salary in tens of millions of dollars



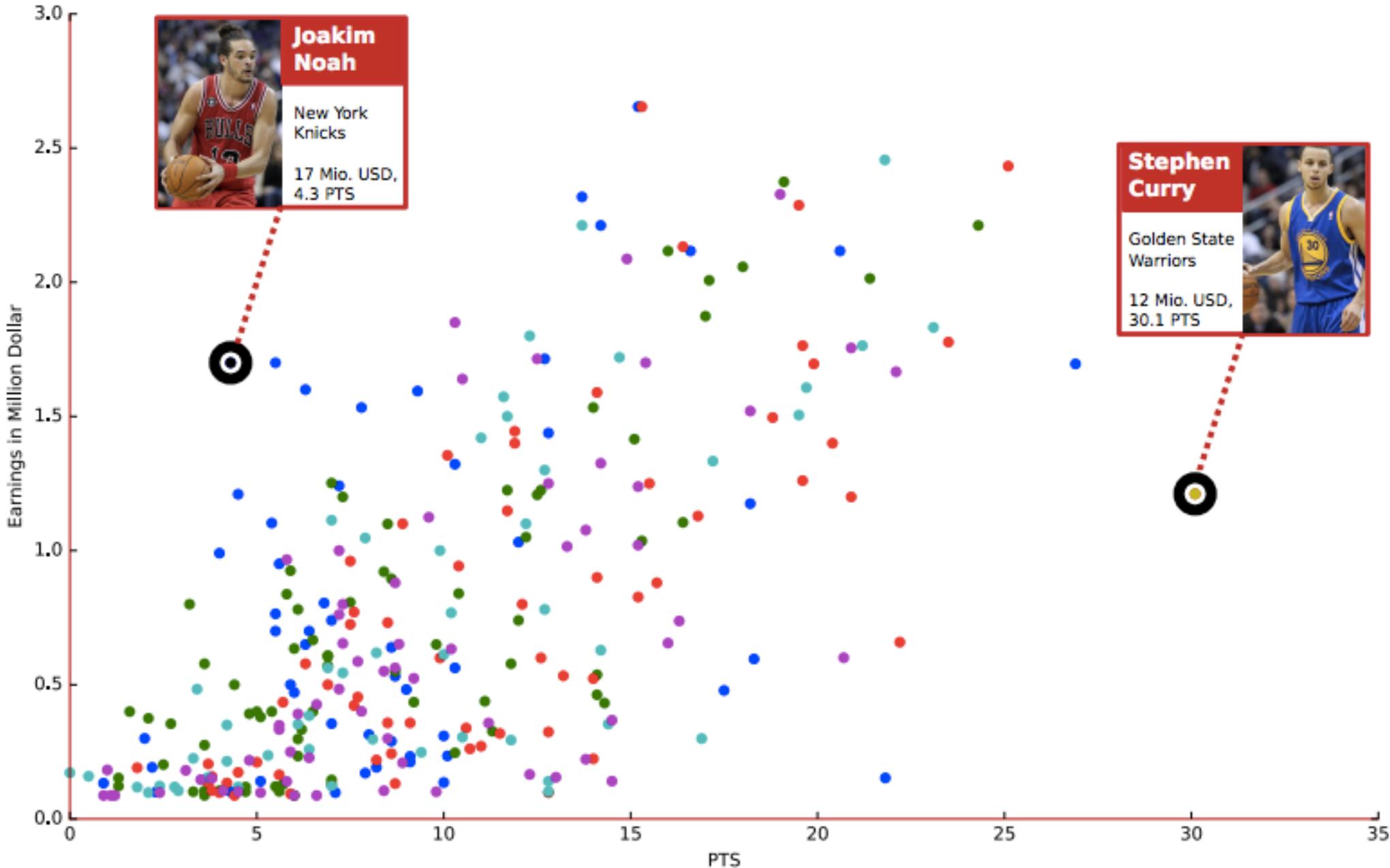
DOES POINTS EARNED MATCHES SALARY FOR NBA PLAYERS?

Graphic by **Zhizhou Wang**

It is a normal understanding that the value and the price has a positive relationship between each other. When it comes to NBA players, the theory still works. However, there're always some outliers in no matter what area, just like in this case, Stephen Curry from Golden State Warriors has the highest points earned but receiving a lower than average salary, while Joakim Noah, whose points is lower than 5, earns a lot more than Stephan does. What are some other facts that could influence the salary of a player?

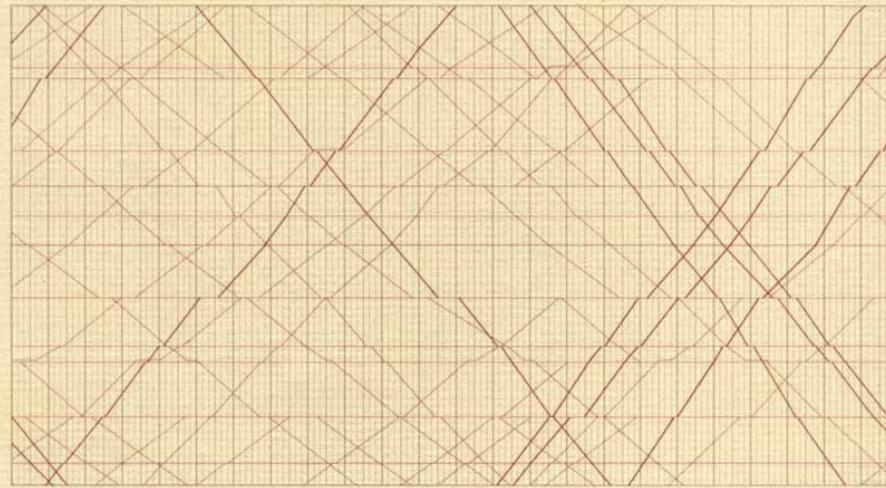


The best doesn't earn the most



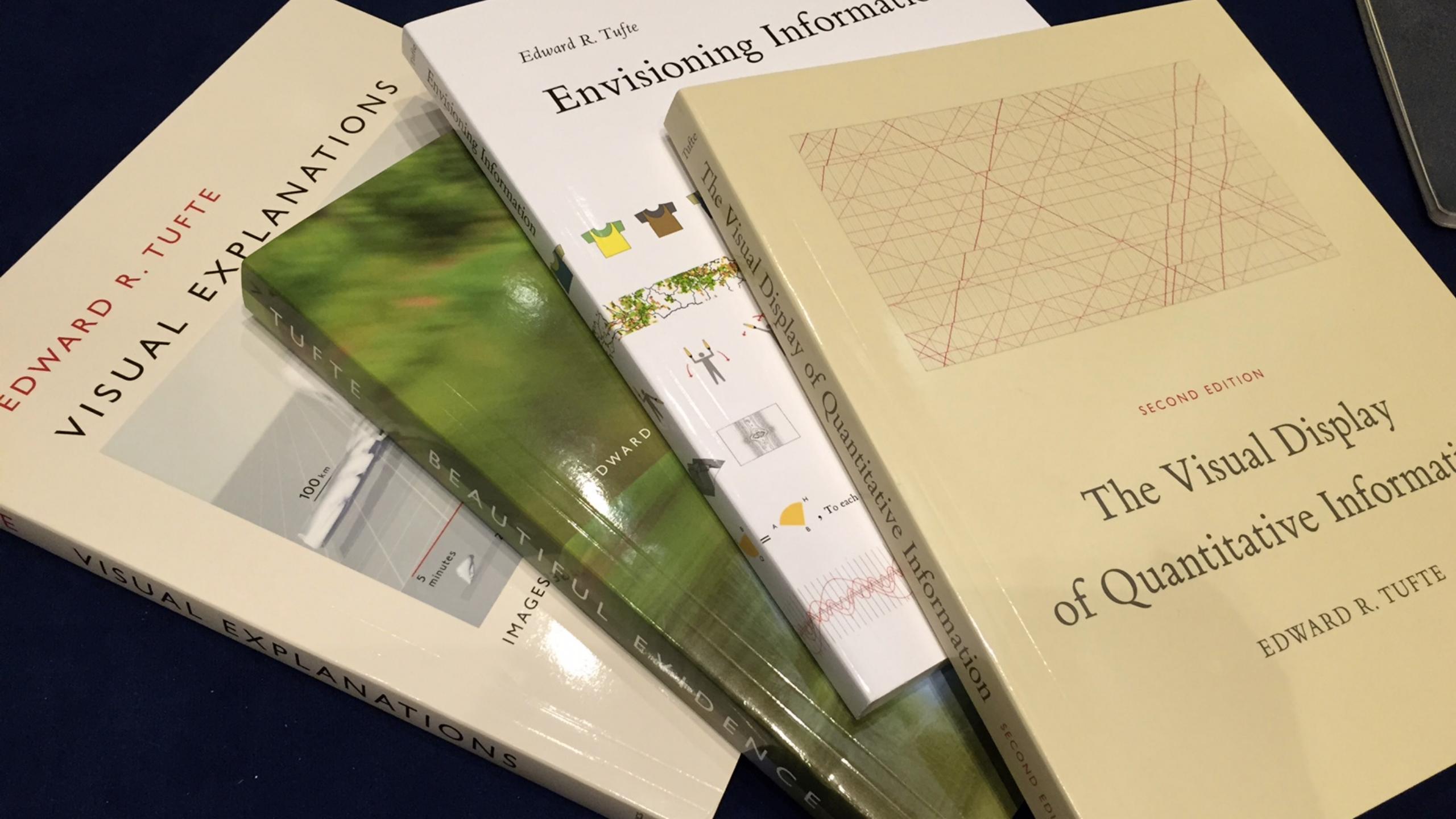
PART ONE: CRITIQUES! (...KIND OF)

EDWARD TUFTE



The Visual Display
of Quantitative Information

EDWARD R. TUFTE



**“ABOVE ALL ELSE,
SHOW THE DATA”**

SIX PRINCIPLES OF GRAPHICAL INTEGRITY

also known as “please don’t lie”

NUMBER 1: SIZE RIGHT

THE REPRESENTATION OF NUMBERS, AS PHYSICALLY MEASURED ON THE SURFACE OF THE GRAPHIC ITSELF, SHOULD BE DIRECTLY PROPORTIONAL TO THE NUMERICAL QUANTITIES REPRESENTED



Previous iPad



New iPad

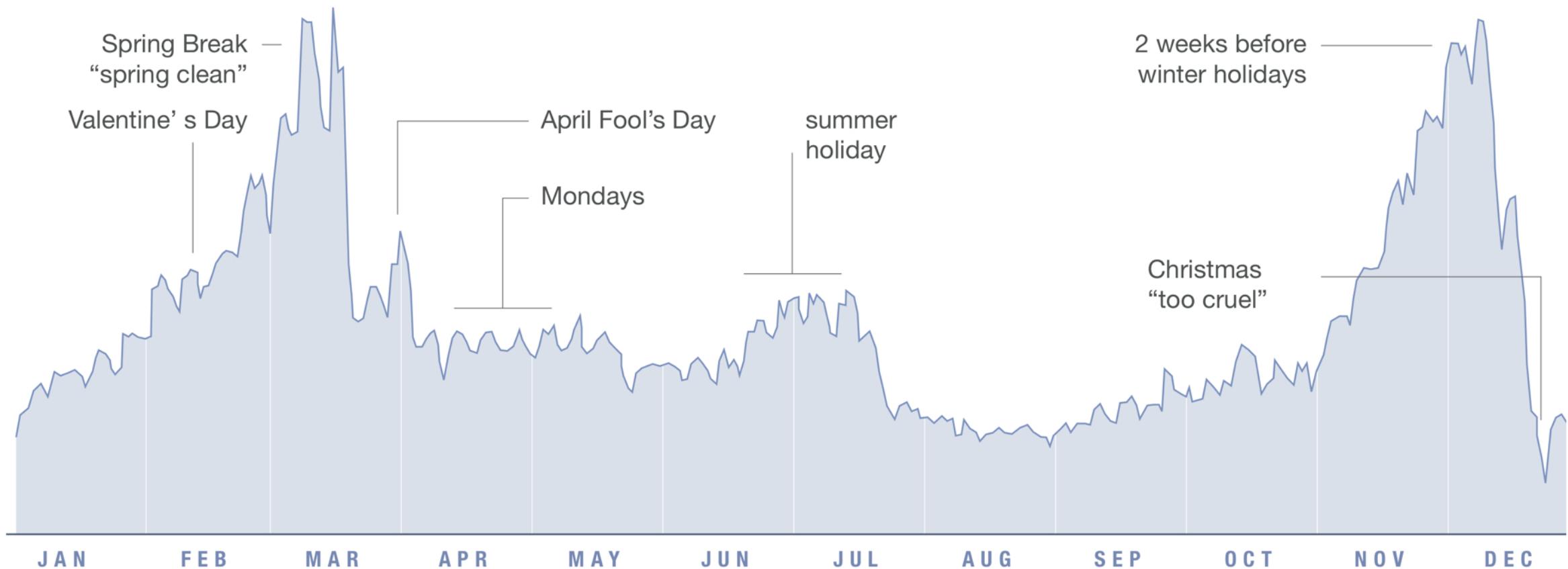
GIZMODO

NUMBER 2: LABEL

CLEAR, DETAILED, AND THOROUGH
LABELING SHOULD BE USED TO DEFEAT
GRAPHICAL DISTORTION AND AMBIGUITY.
WRITE OUT EXPLANATIONS OF THE DATA
ON THE GRAPHIC ITSELF. LABEL
IMPORTANT EVENTS IN THE DATA.

Peak Break-Up Times

According to Facebook status updates



MONSTROUS COSTS

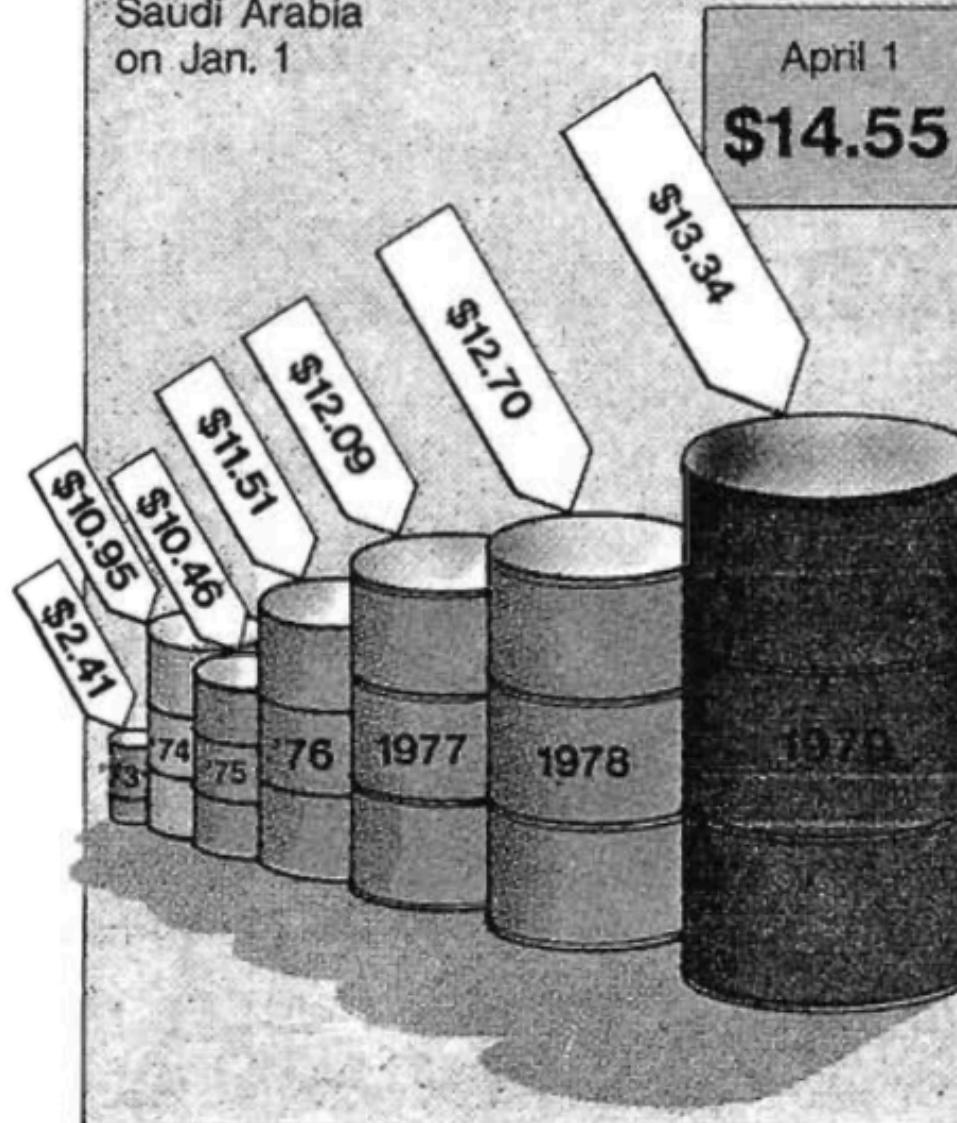
Total House and Senate campaign expenditures,
in millions



NUMBER 3: VARIATION
SHOW DATA VARIATION, NOT DESIGN
VARIATION.

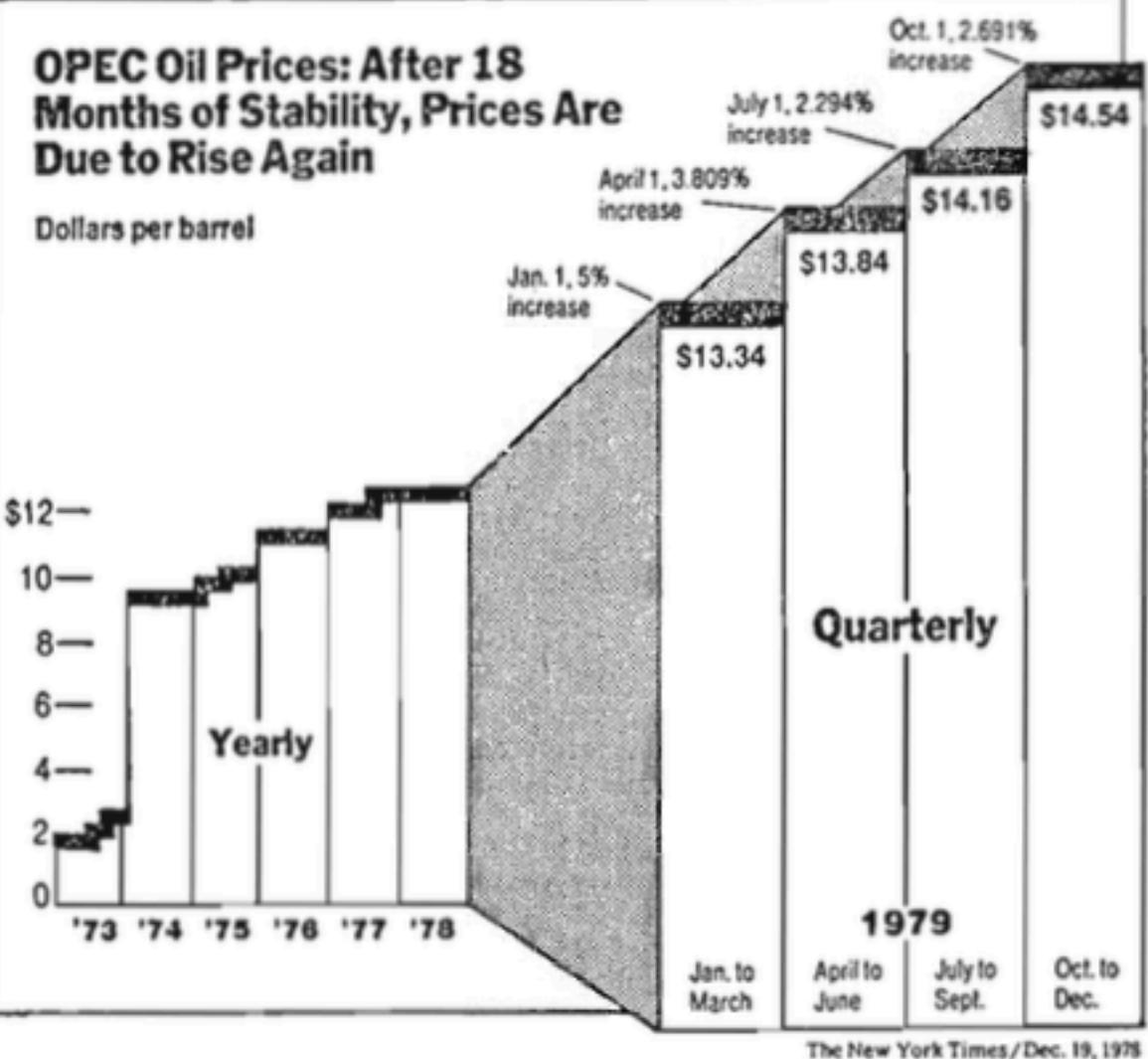
IN THE BARREL...

Price per bbl. of
light crude, leaving
Saudi Arabia
on Jan. 1

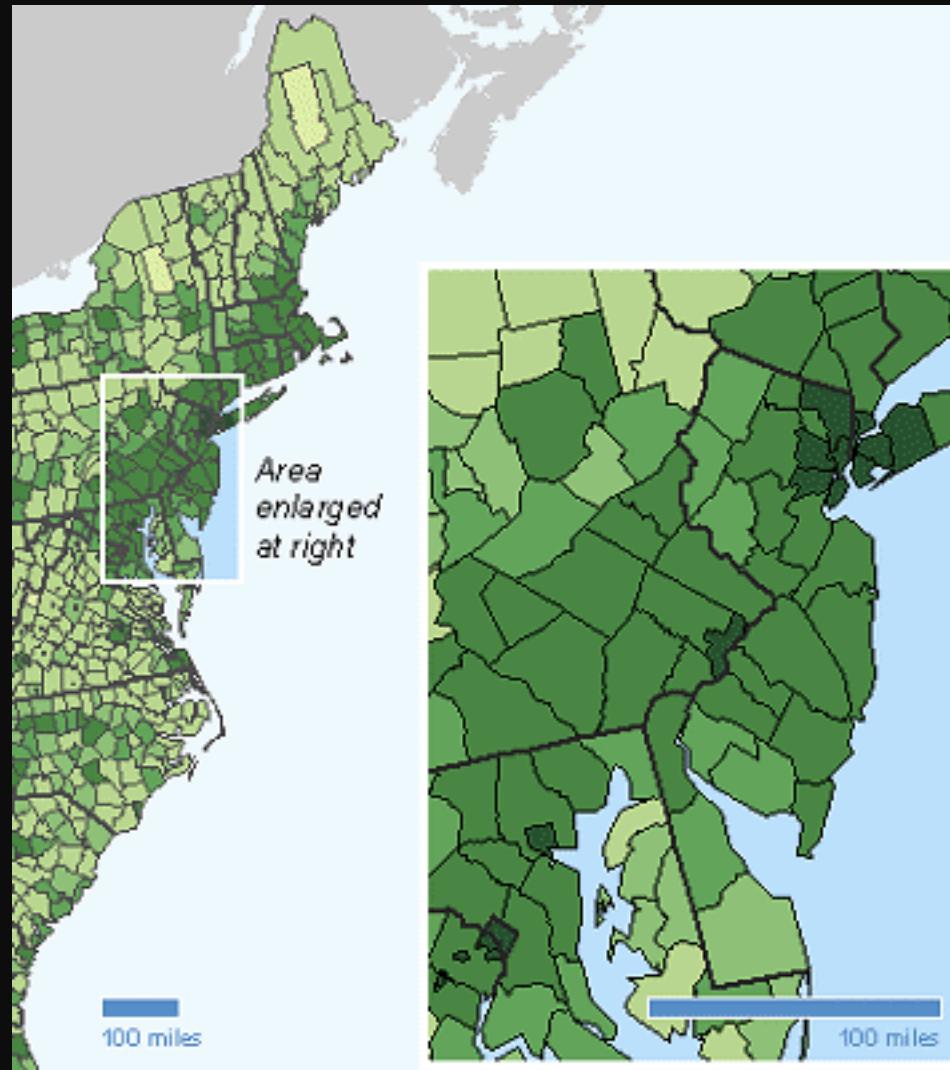


OPEC Oil Prices: After 18 Months of Stability, Prices Are Due to Rise Again

Dollars per barrel



The New York Times / Dec. 19, 1978

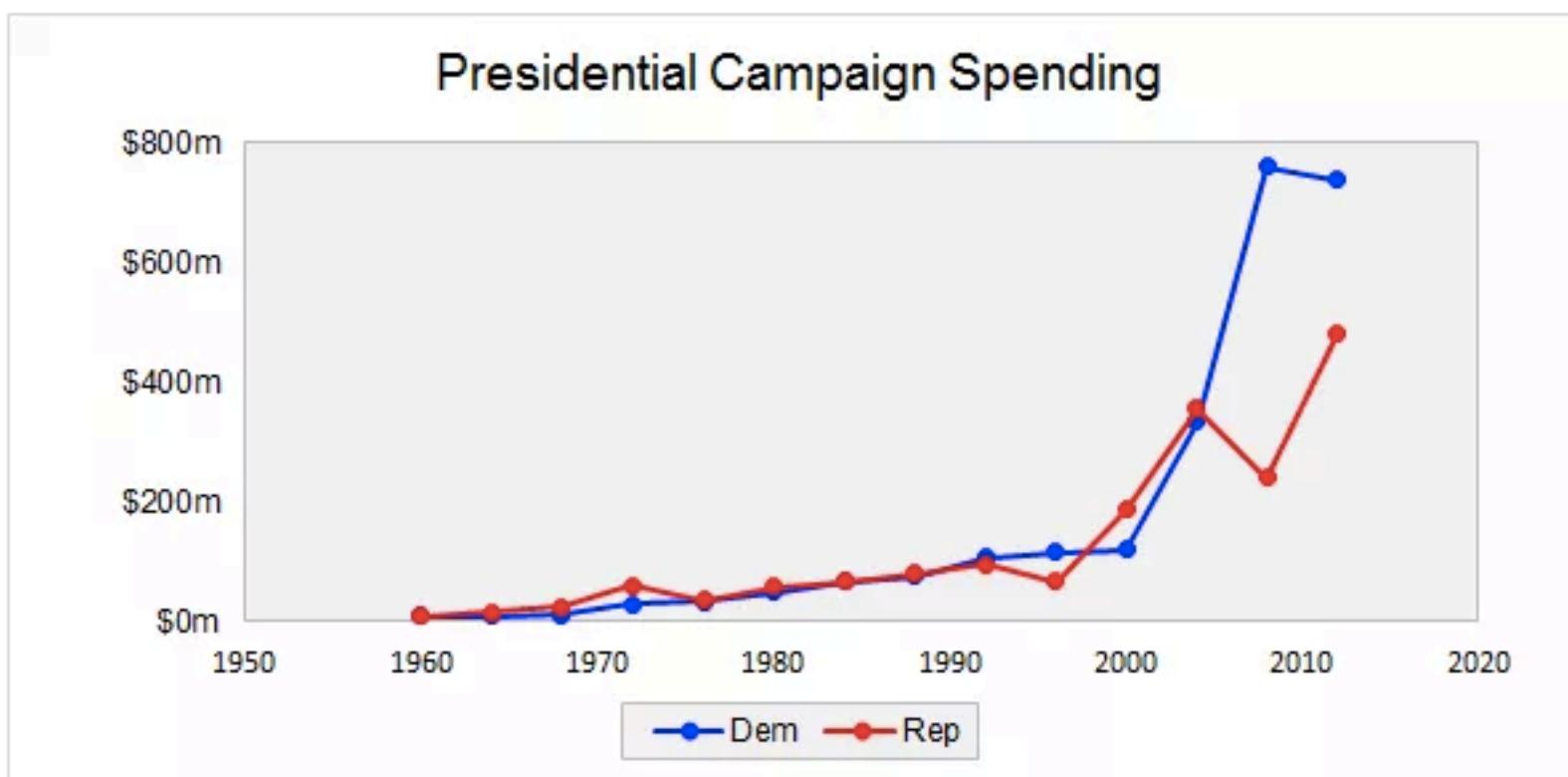


NUMBER 4: MONEY

IN TIME-SERIES DISPLAYS OF MONEY,
DEFLATED AND STANDARDIZED UNITS OF
MONETARY MEASUREMENT ARE NEARLY
ALWAYS BETTER THAN NOMINAL UNITS.

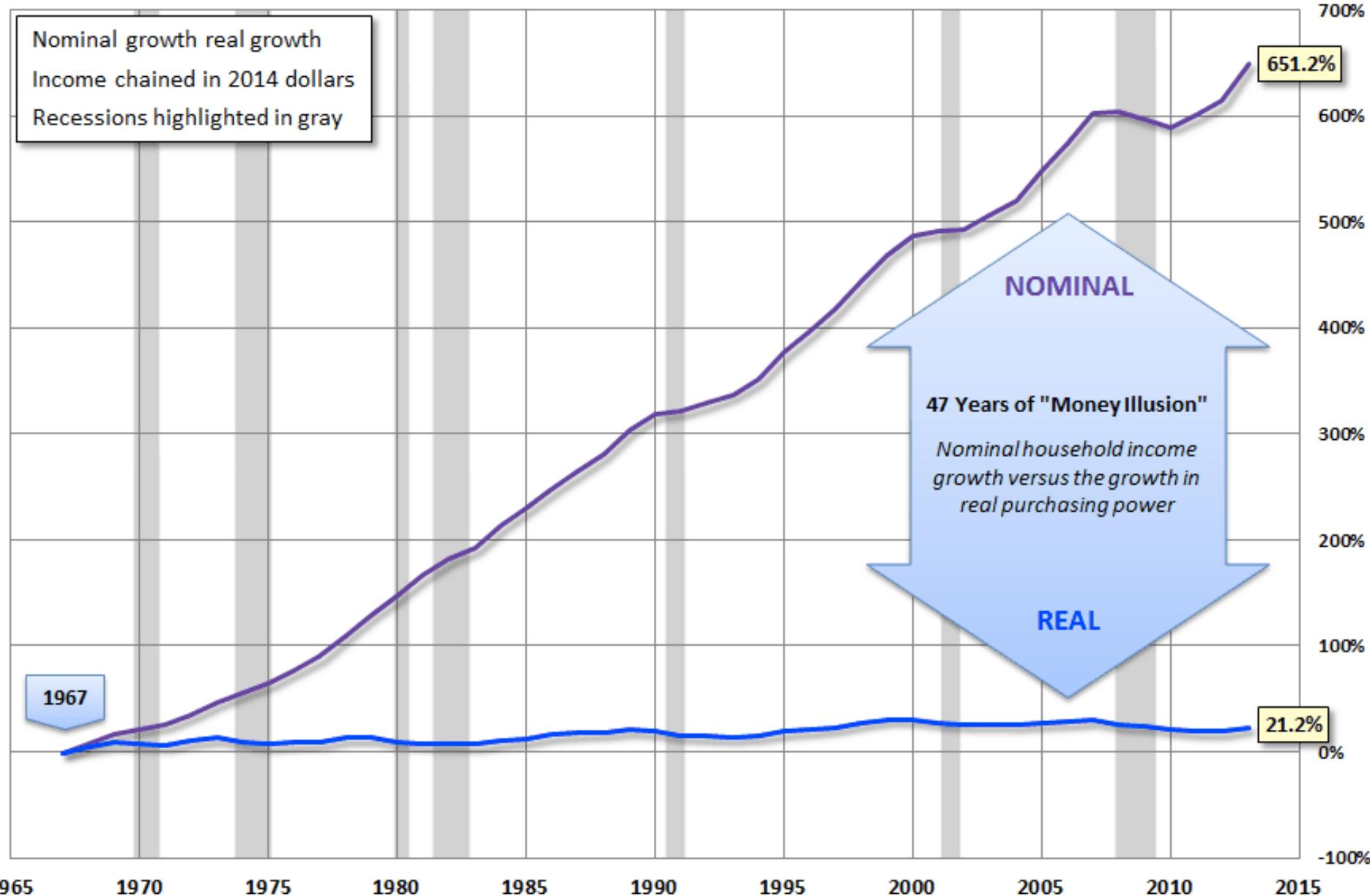
The raw figures

Here are the raw spending numbers for both parties' presidential candidates since 1960 (the same numbers as the chart at the top). These figures are *not* adjusted for inflation.



Median Household Income Growth

Nominal Growth CPI-U-RS Adjusted

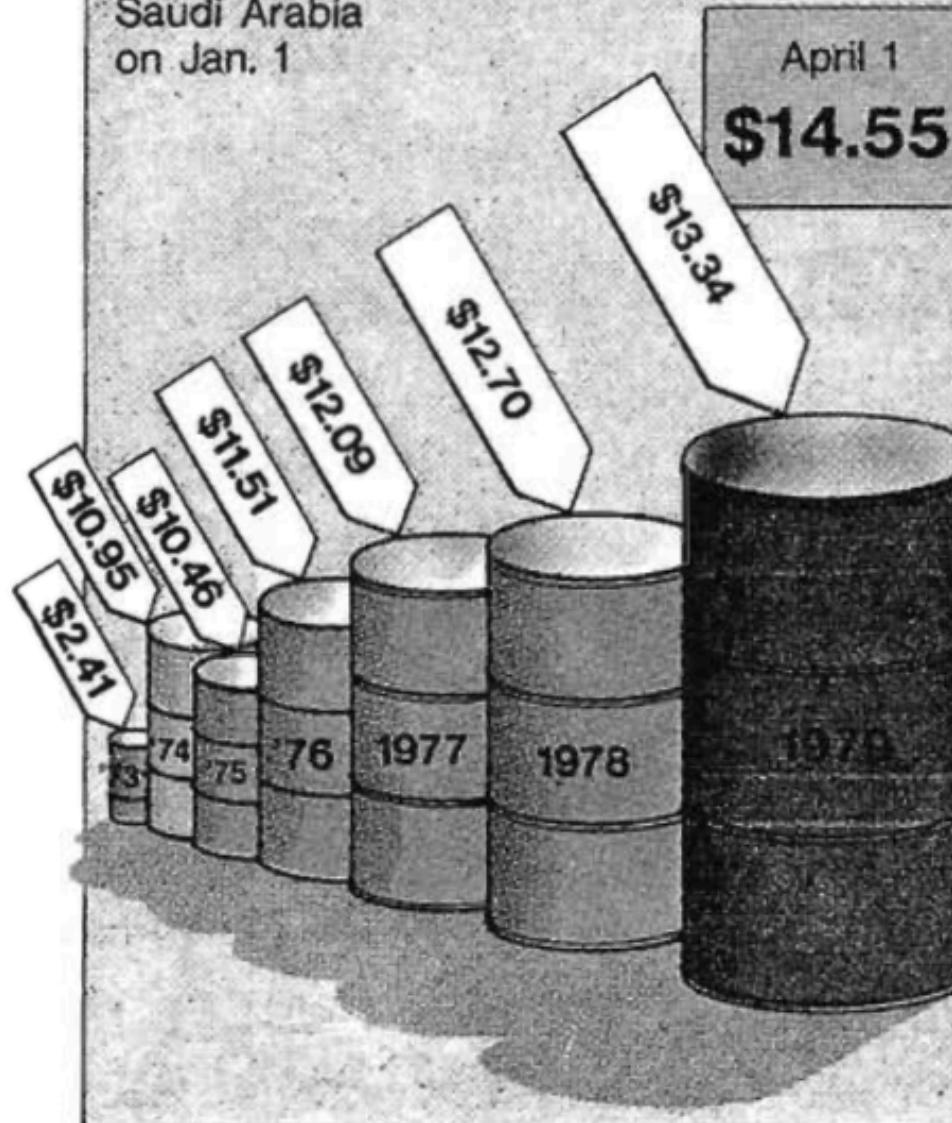


NUMBER 5: DIMENSIONS

THE NUMBER OF INFORMATION-CARRYING (VARIABLE) DIMENSIONS DEPICTED SHOULD NOT EXCEED THE NUMBER OF DIMENSIONS IN THE DATA.

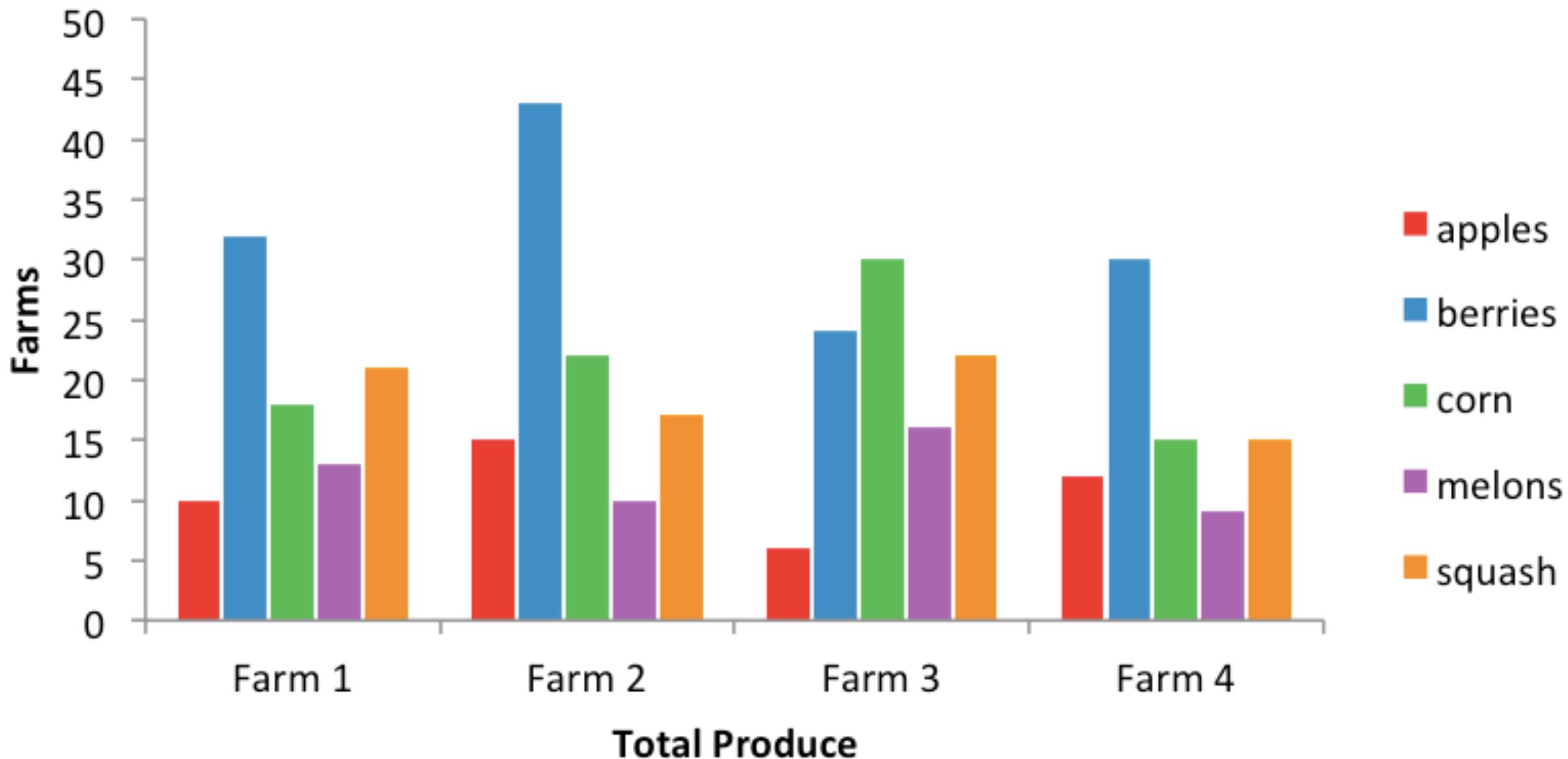
IN THE BARREL...

Price per bbl. of
light crude, leaving
Saudi Arabia
on Jan. 1

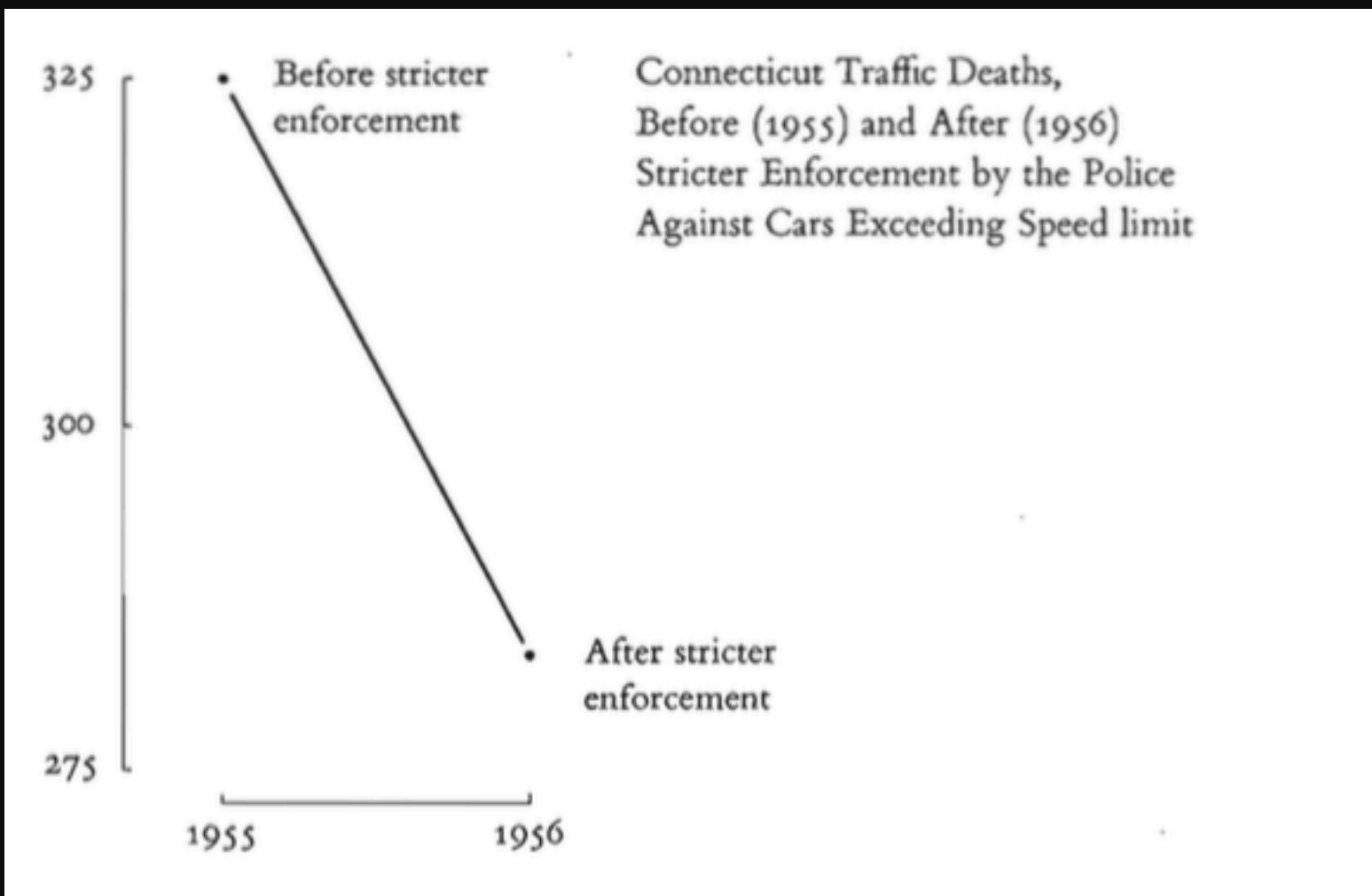


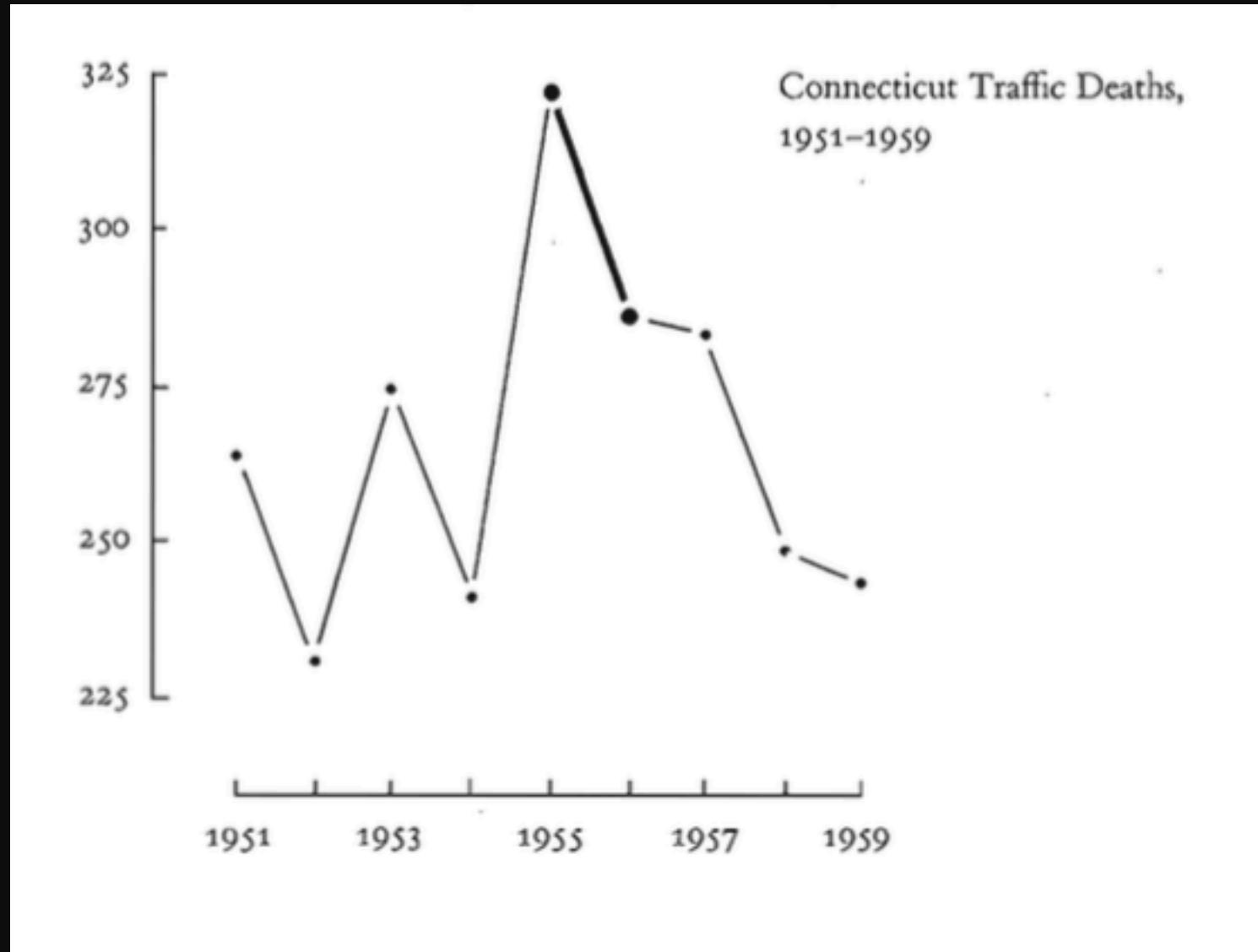
Nicest Fruit



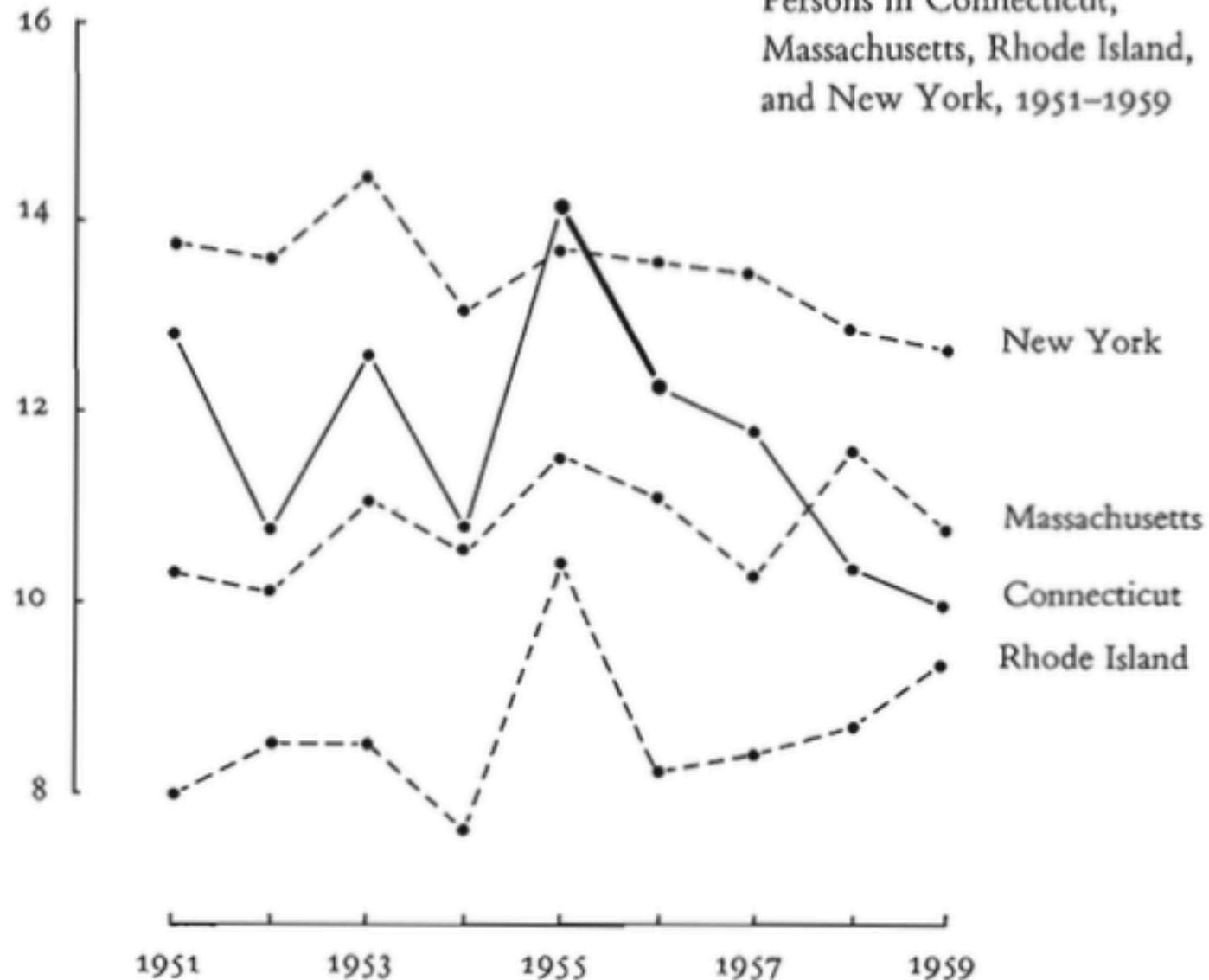


**NUMBER 6: CONTEXT
GRAPHICS MUST NOT QUOTE DATA OUT OF
CONTEXT.**





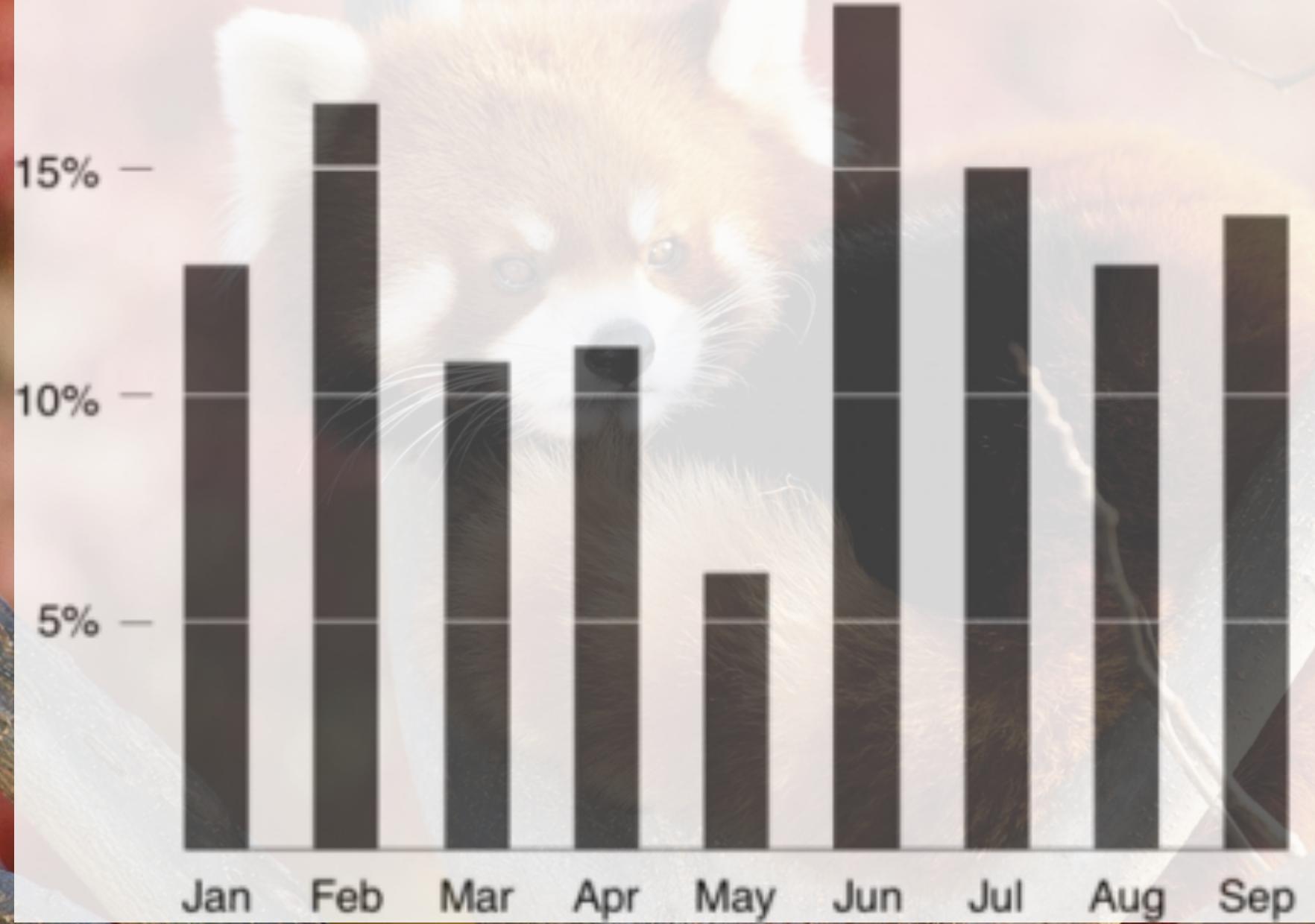
Traffic Deaths per 100,000
Persons in Connecticut,
Massachusetts, Rhode Island,
and New York, 1951-1959



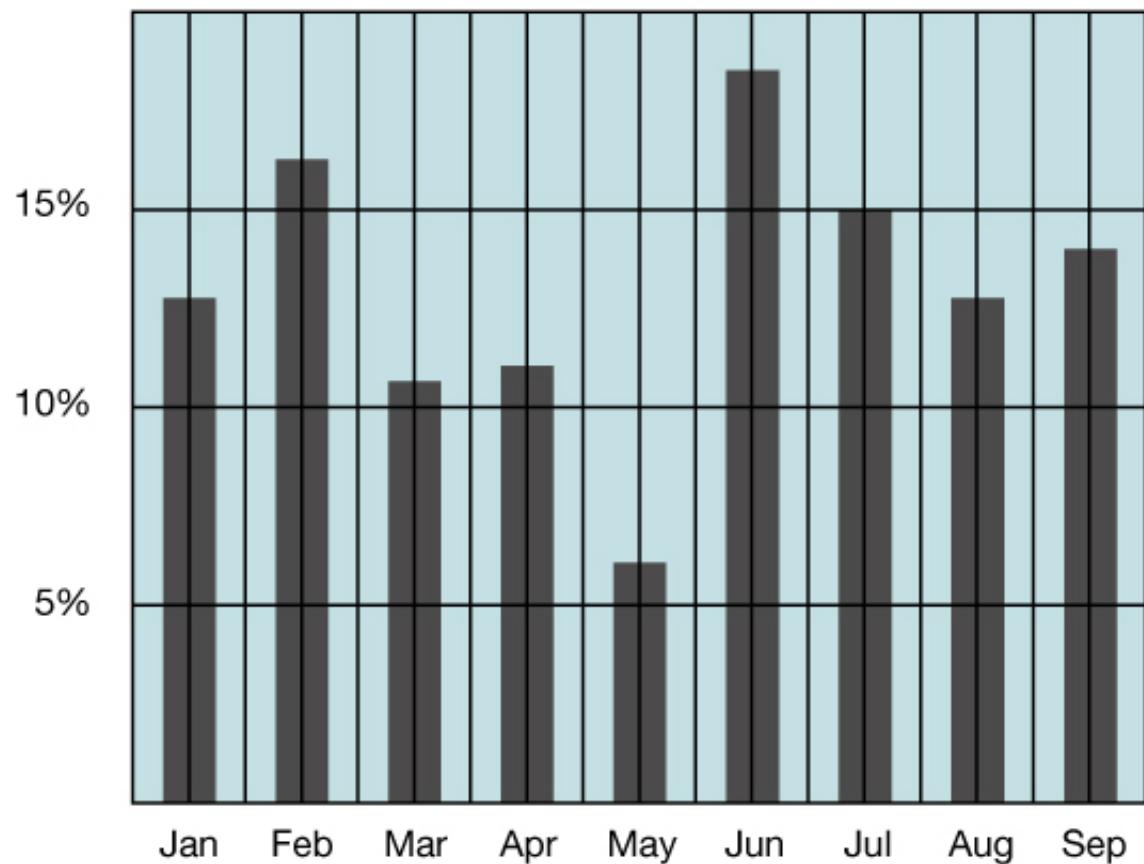
DATA-INKRATIO

**INK USED FOR THE DATA
----- DIVIDED BY -----
INK USED FOR THE GRAPH**

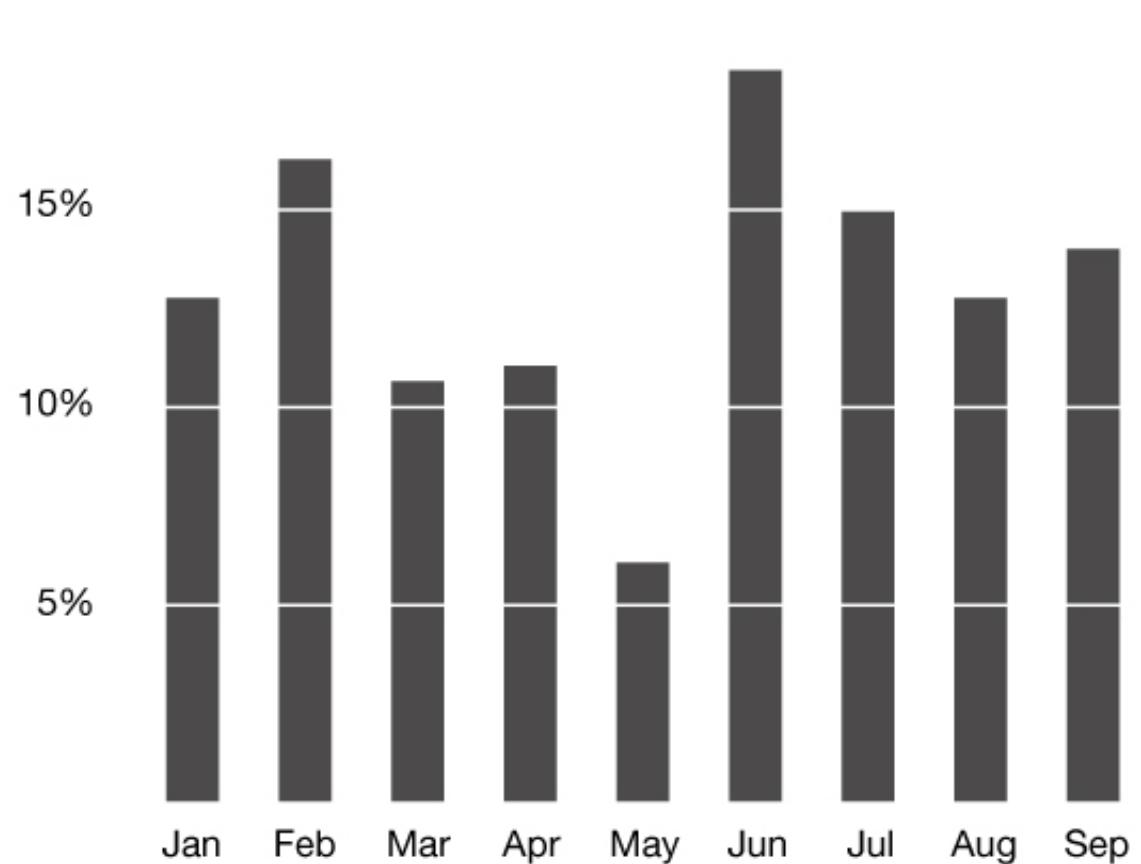


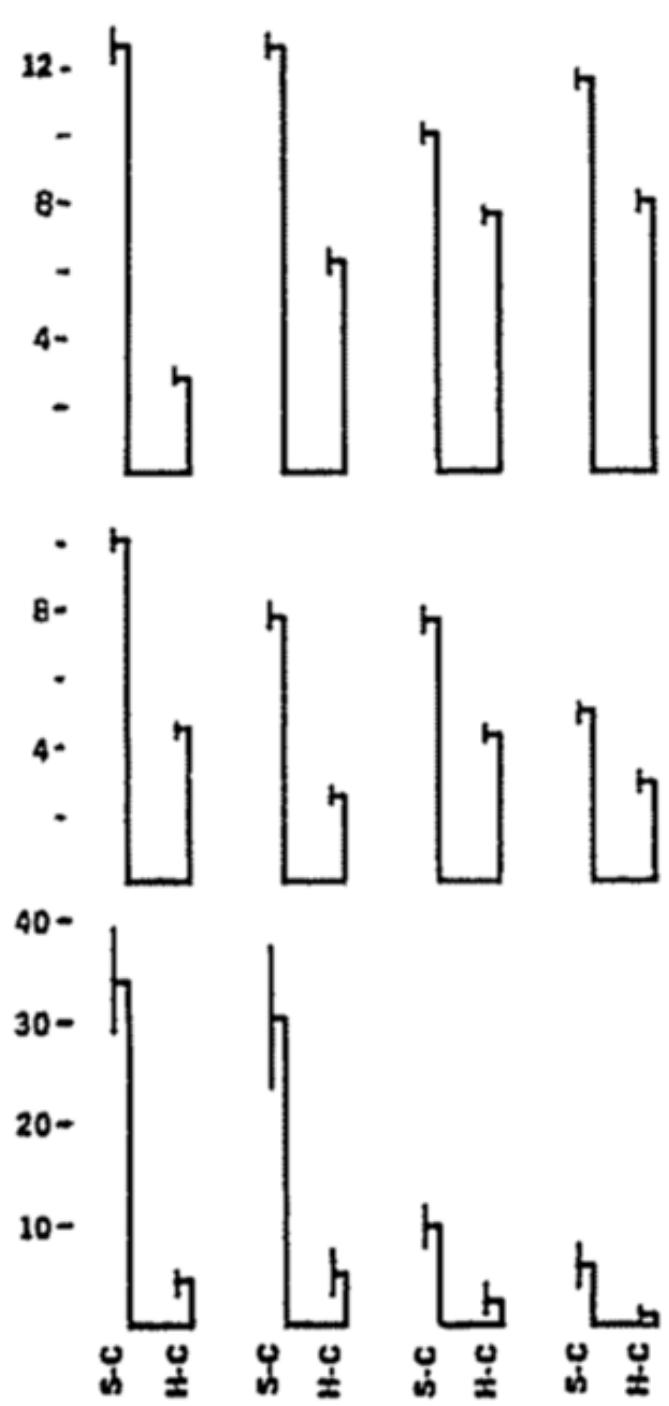
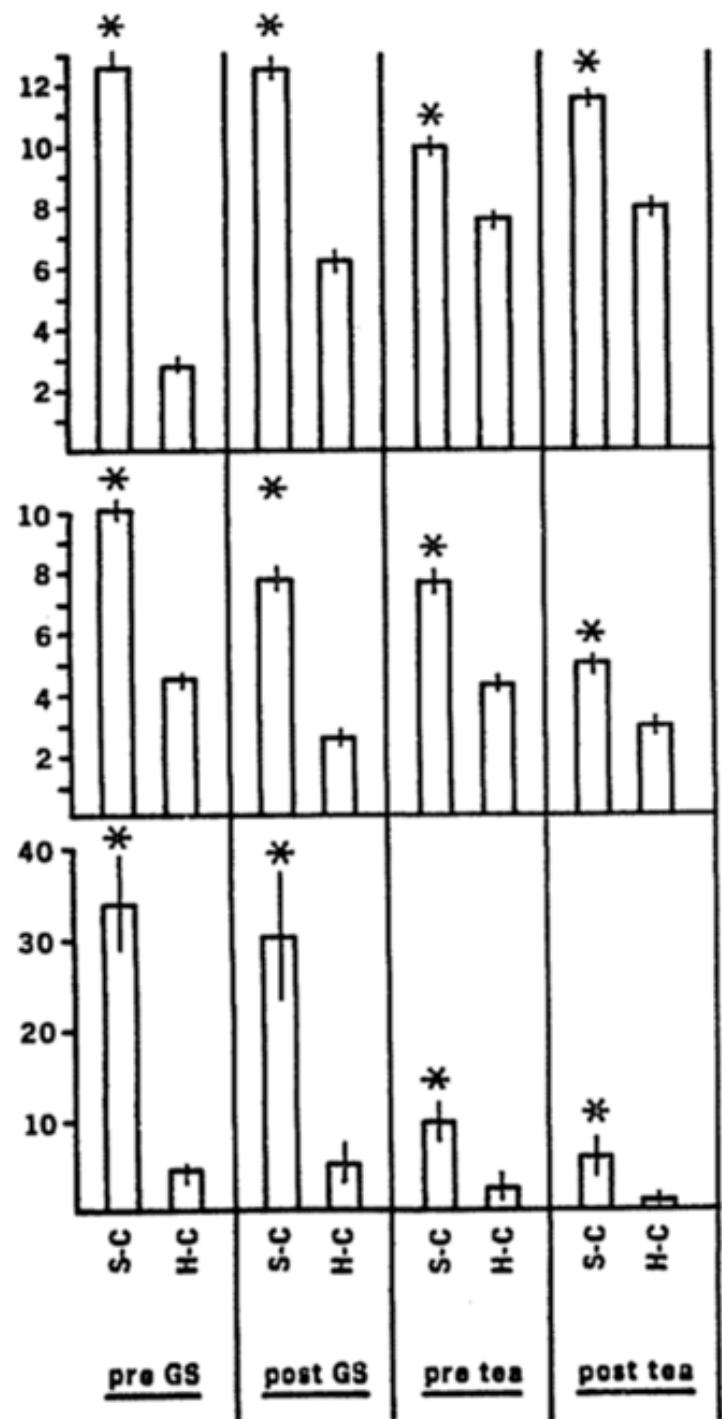


LOW INK-DATA RATIO



HIGH INK-DATA RATIO



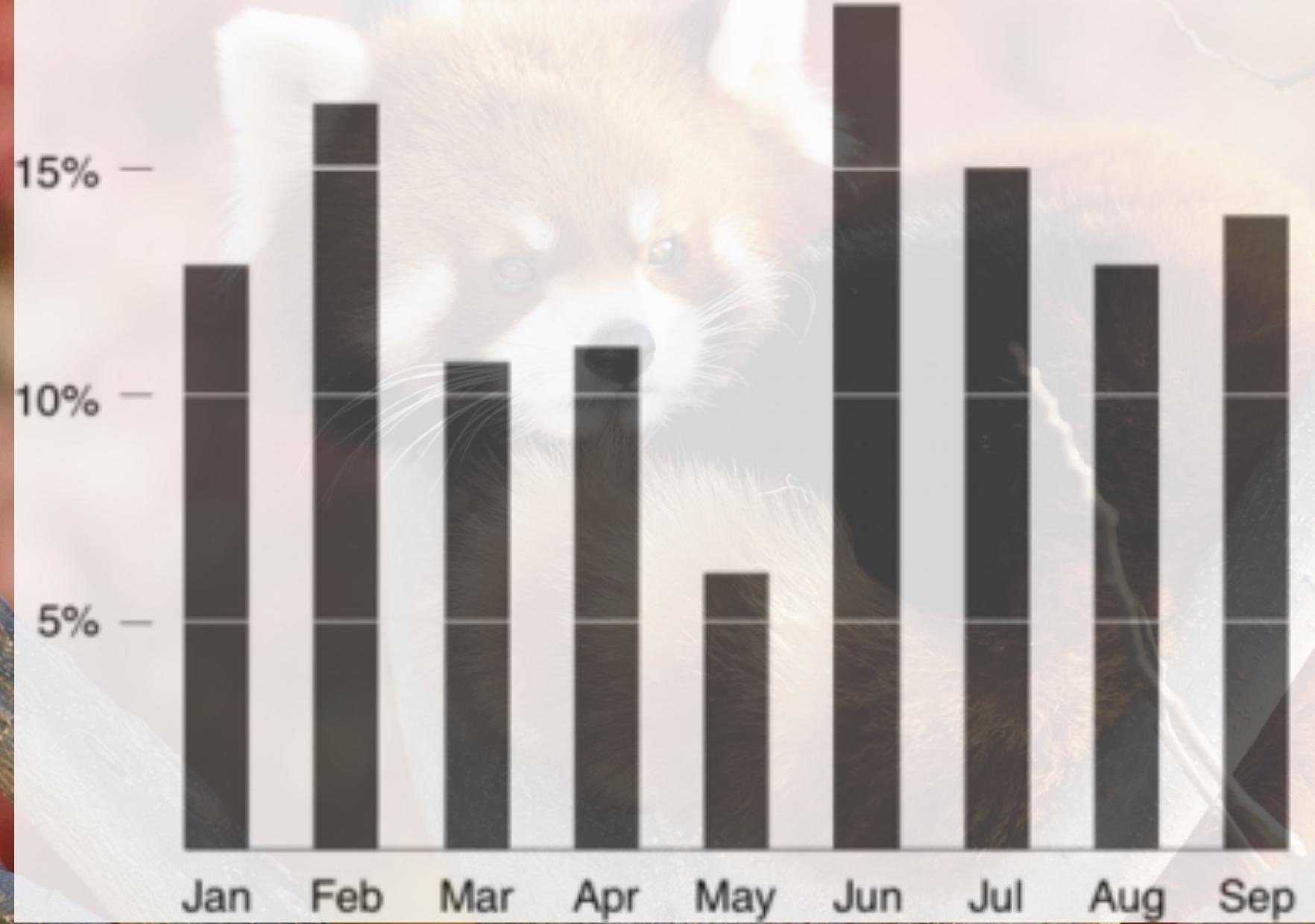




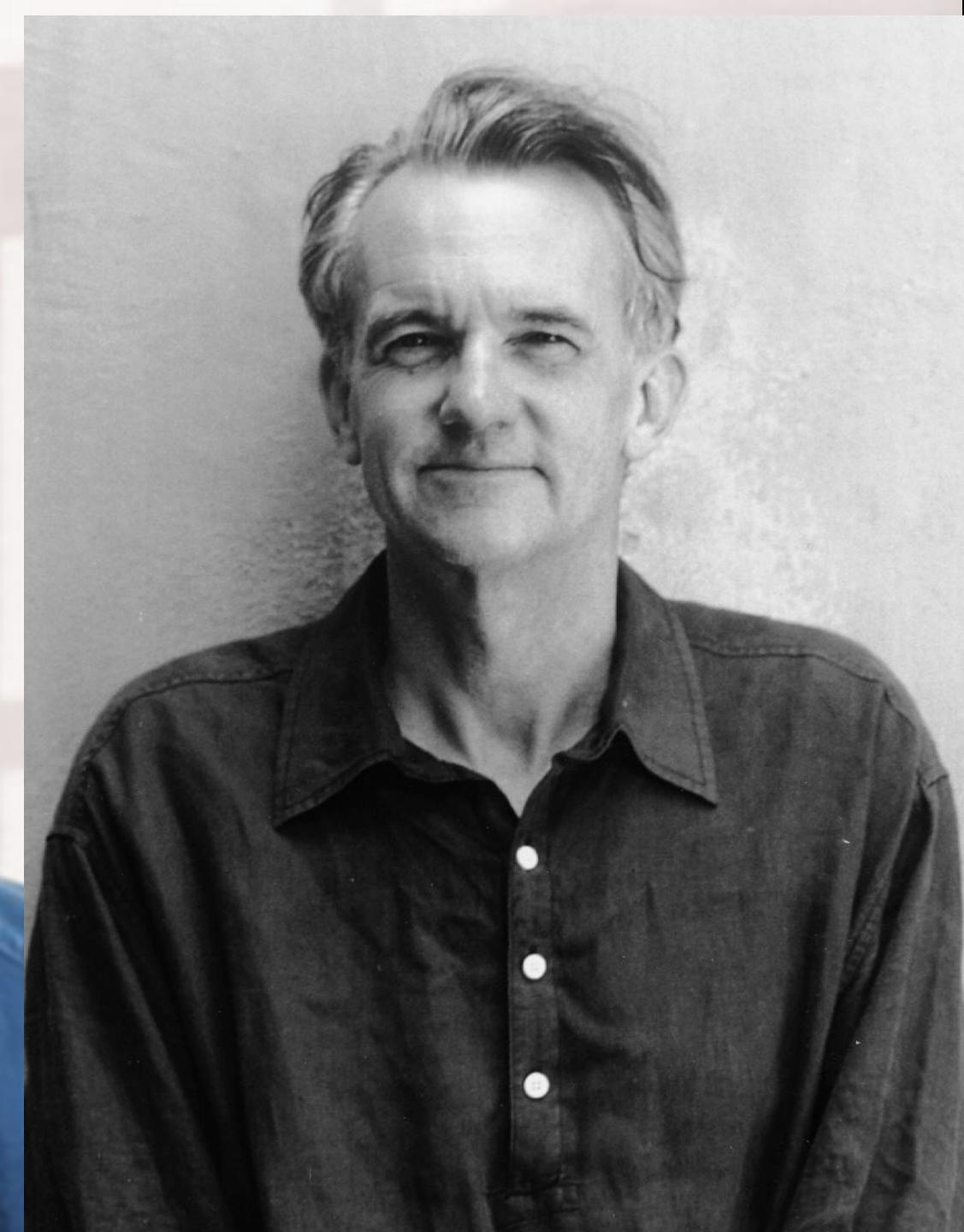
MARIE KONDOSCHOOL OF CHART DESIGN

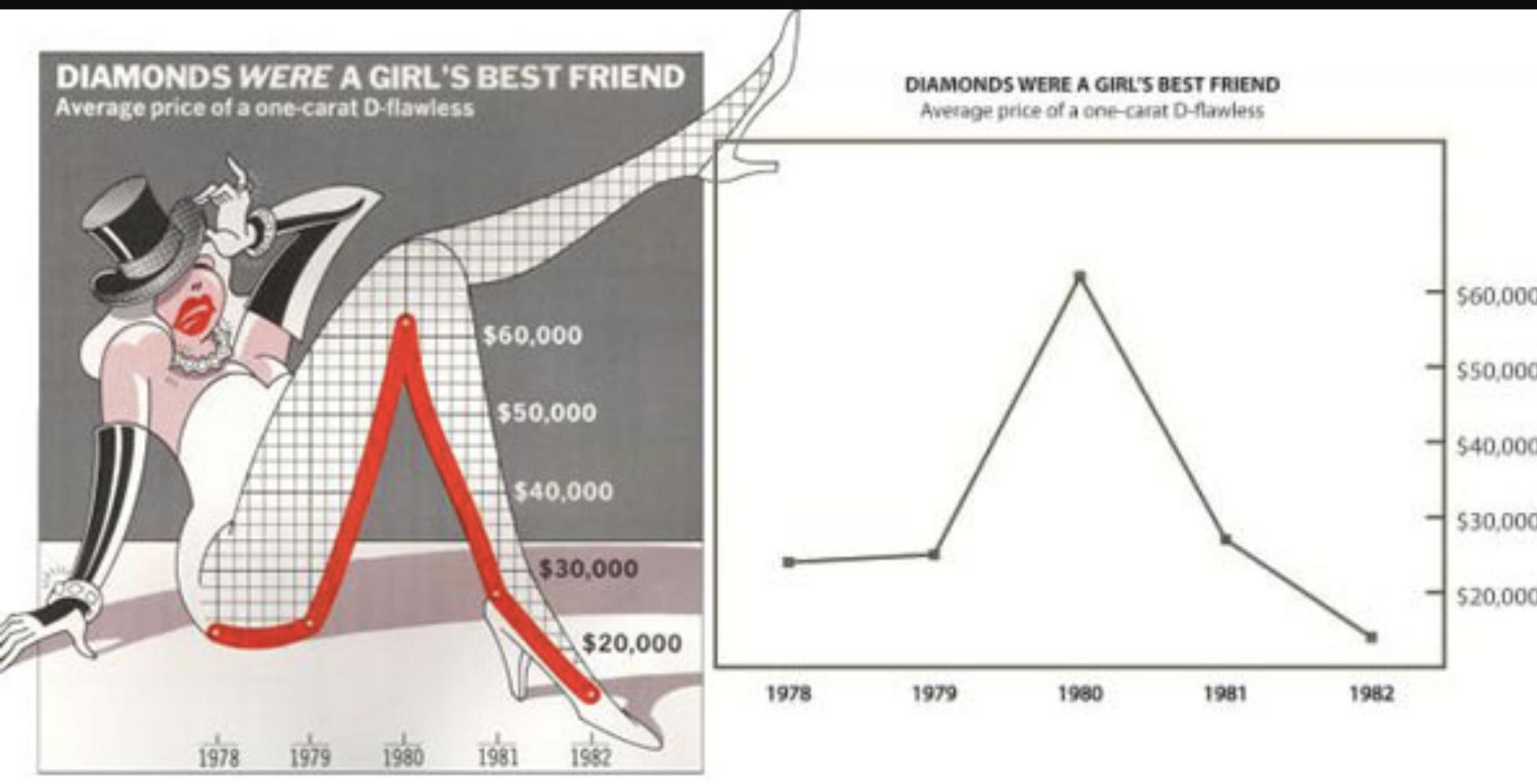
Remove to improve (the **data-ink** ratio)

CHARTJUNK



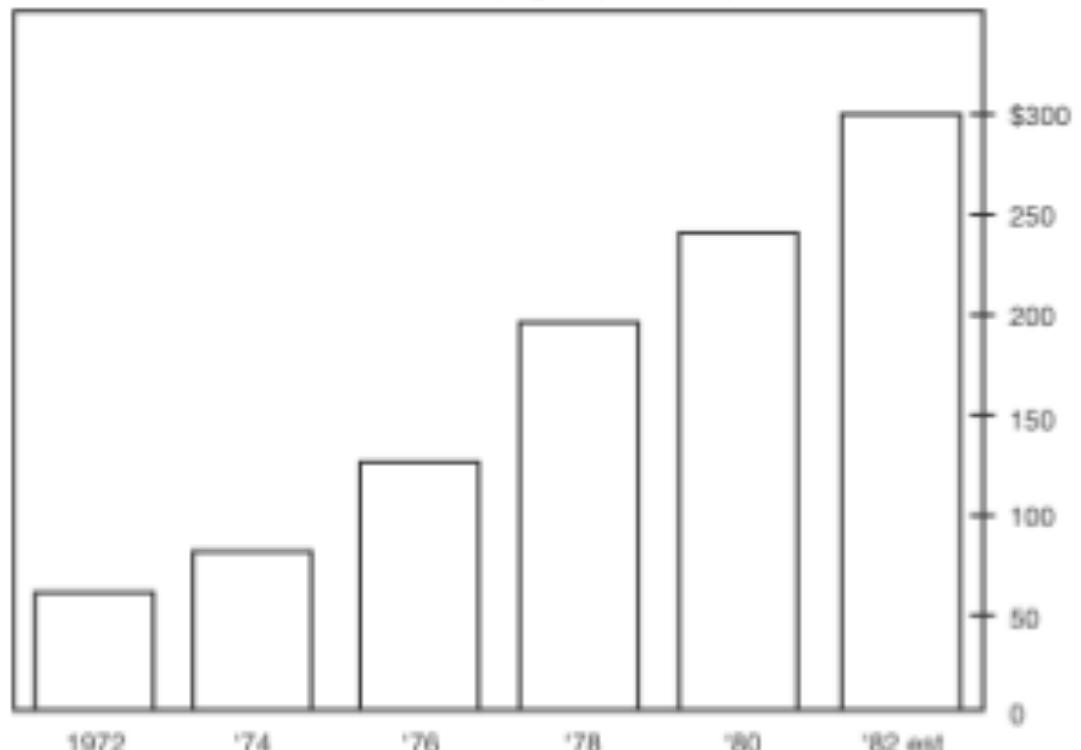
**EDWARD TUFTE
V.
NIGEL HOLMES**





MONSTROUS COSTS

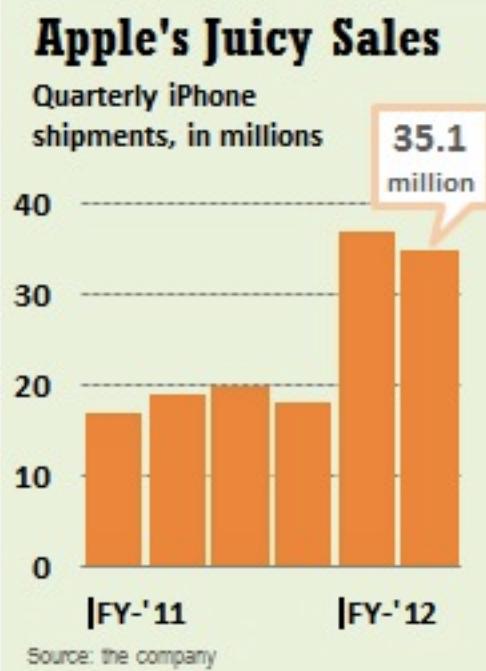
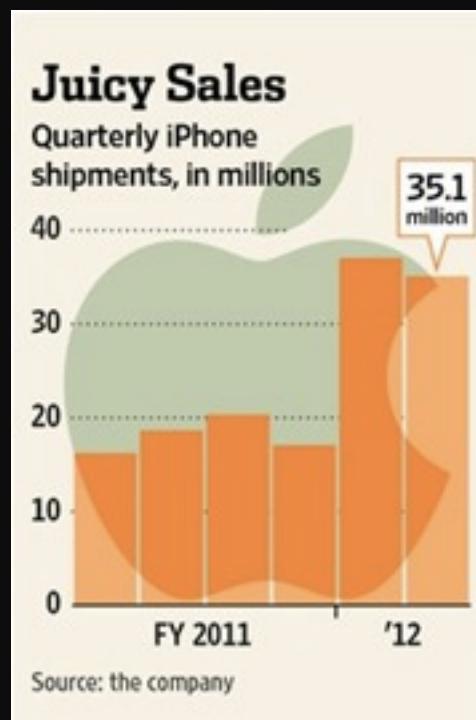
Total House and Senate campaign expenditures, in millions



MONSTROUS COSTS

Total House and Senate
campaign expenditures,
in millions





5 PRINCIPLES OF GRAPHICS

ABOVE ALL ELSE, SHOW THE DATA

MAXIMIZE THE DATA-INK RATIO

ERASE NON-DATA-INK

ERASE REDUNDANT DATA-INK

REVISE AND EDIT